



QY 181 METELEVSEGMDQFDRGVLQSYMDVNEKMDArlenPELIDKKSNSQDIPPLEUVK 240  
 |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:  
 Db 181 METELEVSEGMDQFDRGVLQSYMDVNEKMDArlenPELIDKKSNSQDIPPLEUVK 240  
 QY 241 TNRPLLIADDVGEALPFLVNLKIRGKNTENYAVKAPFGGRRKAMLDIALTGGTVT 300  
 |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:  
 Db 241 SNRPLIADDVGEALPFLVNLKIRGKNTENYAVKAPFGGRRKAMLDIALTGGTVT 300  
 QY 301 EDIGLELKDATMPLGQAKTIVDKDSVTVEGGSSRANRIALIKSOLFTTSDFR 360  
 |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:  
 Db 301 EDIGLELKDATMPLGQAKTIVDKDSVTVEGGSSRANRIALIKSOLFTTSDFR 360  
 QY 361 EKQERLAKLAGGYAVIKVKGAPTEALKEMKLREDALNATRAWEVGIVAGGGTALV 420  
 |||||||:|||||:|||||:|||||:|||||:|||||:  
 Db 361 EKQERLAKLAGGYAVIKVKGAPTEALKEMKLREDALNATRAWEVGIVAGGGTALV 420  
 QY 361 EKQERLAKLAGGYAVIKVKGAPTEALKEMKLREDALNATRAWEVGIVAGGGTALV 420  
 |||||||:|||||:  
 Db 361 EKQERLAKLAGGYAVIKVKGAPTEALKEMKLREDALNATRAWEVGIVAGGGTALV 420  
 QY 421 IEKVAALLEGDDATGNNIVLRALEEPKROTALNAGYEGSVIQLKNSPAGTGENATG 480  
 |||||||:|||||:  
 Db 421 IEKVAALLEGDDATGNNIVLRALEEPKROTALNAGYEGSVIQLKNSPAGTGENATG 480  
 QY 421 IPAVATLELJGDEATGANTVRLAEEPVROLAHNAGFEGSVIQLRNLAEIGGNAATG 480  
 |||||||:  
 Db 421 IPAVATLELJGDEATGANTVRLAEEPVROLAHNAGFEGSVIQLRNLAEIGGNAATG 480  
 QY 481 EWDMDTGTIDPKVYRSLQNAONASVSLTTEAVKANKEPAPAPAMPGMDPMM 540  
 |||||||:  
 Db 481 EWDMDTGTIDPKVYRSLQNAONASVSLTTEAVKANKEPAPAPAMPGMDPMM 540  
 QY 541 EWDMDTGTIDPKVYRSLQNAONASVSLTTEAVKANKEPAPAPAMPGMDPMM 540  
 |||||||:  
 Db 541 EWDMDTGTIDPKVYRSLQNAONASVSLTTEAVKANKEPAPAPAMPGMDPMM 540  
 QY 541 GGM 541  
 |||||||:  
 Db 537 GGM 541  
 QY 537 GGM 541

RESULT 2  
 US-10-031-643-160  
 Sequence 160: Application US/10051643  
 Publication No. US2002019765A1  
 GENERAL INFORMATION:  
 APPLICANT: Watson, James D.  
 TITLE OF INVENTION: Methods and Compounds for the Treatment  
 OF Immunologically Mediated Diseases of the Respiratory  
 System using Mycobacterium Vaccine  
 FILE REFERENCE: 11000\_1006C2  
 CURRENT APPLICATION NUMBER: US/10/051, 643  
 CURRENT FILING DATE: 2002-01-18  
 PRIOR APPLICATION NUMBER: US/9/156, 181  
 PRIOR FILING DATE: 1988-03-17  
 PRIOR APPLICATION NUMBER: US/08/996, 624  
 PRIOR FILING DATE: 1991-12-23  
 NUMBER OF SEQ ID NOS: 208  
 SOFTWARE: FASTSEQ for Windows Version 3.0  
 SEQ ID NO:160  
 LENGTH: 541  
 TYPE: PRT  
 ORGANISM: Mycobacterium vaccae  
 US-10-051-643-160  
 Query Match 62.7%; Score 1671; DB 9; Length 541;  
 Best Local Similarity 62.1%; Pred. No. 7,3e-100;  
 Matches 337; Conservative 84; Mismatches 118; Indels 4; Gaps 1;  
 QY 1 MAKEIKFSADARAAKVGVDMLADTVKTVLGPKGKRNVLKAFGSPPLITNDGVTIAKE 60  
 ||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:  
 Db 1 MAKTIAYDEBARKLGLERKMLADAVKTVLGPKGKRNVLKAFGSPPLITNDGVTIAKE 60  
 QY 61 LDDHFNMMKLUVSEASKINDAGDGTATVTOAIVHGLKNTGANGRIGRG 120  
 ||||:||||:||||:||||:||||:||||:||||:||||:  
 Db 61 LDDHFNMMKLUVSEASKINDAGDGTATVTOAIVHGLKNTGANGRIGRG 120  
 QY 61 LDDPTEKIGAELYKEKDDYAGDTTVAQVLRGLRVAAGANGLKRG 120  
 ||||:||||:||||:||||:||||:||||:  
 Db 61 LDDPTEKIGAELYKEKDDYAGDTTVAQVLRGLRVAAGANGLKRG 120  
 QY 121 TATATAVAKLAKIAQPVSGKEIAQWAVSSSEKUGEVISAMERVGNDGVTIESRG 180  
 ||||:||||:||||:||||:||||:||||:  
 Db 121 TATATAVAKLAKIAQPVSGKEIAQWAVSSSEKUGEVISAMERVGNDGVTIESRG 180  
 QY 181 METELEVSEGMDQFDRGVLQSYMDVNEKMDArlenPELIDKKSNSQDIPPLEUVK 240  
 ||||:||||:||||:||||:||||:||||:  
 Db 181 METELEVSEGMDQFDRGVLQSYMDVNEKMDArlenPELIDKKSNSQDIPPLEUVK 240  
 QY 181 METELEVSEGMDQFDRGVLQSYMDVNEKMDArlenPELIDKKSNSQDIPPLEUVK 240  
 ||||:||||:||||:  
 Db 181 METELEVSEGMDQFDRGVLQSYMDVNEKMDArlenPELIDKKSNSQDIPPLEUVK 240  
 QY 241 TNRPLLIADDVGEALPFLVNLKIRGKNTENYAVKAPFGGRRKAMLDIALTGGTVT 300  
 ||||:||||:||||:||||:  
 Db 241 TNRPLLIADDVGEALPFLVNLKIRGKNTENYAVKAPFGGRRKAMLDIALTGGTVT 300

RESULT <sup>4</sup>  
US-10-267-311-21

; Sequence 21, Application US/10267311  
; Publication No. US20030050469A1

; GENERAL INFORMATION:

; APPLICANT: Siegel, Marvin

; APPLICANT: Chu, N. Randall

; APPLICANT: Mizzen, Lee A.

; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO

; FILE REFERENCE: 12071/002001

; CURRENT APPLICATION NUMBER: US/10-267 311

; CURRENT FILING DATE: 2002-10-09

; PRIOR APPLICATION NUMBER: US/09/613,303

; PRIOR FILING DATE: 2000-07-10

; SEQ ID NO: 10

; PRIORITY NUMBER: US 60/143,757

; PRIORITY FILING DATE: 1999-07-08

; NUMBER OF SEQ ID NOS: 55

; SOFTWARE: Fast-SEQ for Windows Version 4.0

; LENGTH: 948

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE: OTHER INFORMATION: fusion sequence

US-10-267-311-21

Query Match Best Local Similarity 60.1%; Pred. No. 2.4e-98; Matches 332; Conservative 87; Mismatches 125; Indels 3; Gaps 1;

Query 1 MAKEIKFSDARAKAMRGVYGMPLATVKTLPKGPKRNVYLEKAFGSPPLITDGTYTKEIE 60

Db 21 MAKTIYDEBARRGLERGLNALADAVKYLGPGRNVYLEKKWAPTINDGSIKE 80

Query 61 LEDHFRNNGAKLVSEVASKINDIAGDCTTATVLTQATVHREGKNTYAGANIGIRGIE 120

Db 81 LEDPVEKIGSELEVKEVAKKDVGDTTATVLAQYREGLRAAGANGLIGLRGE 140

Query 121 TATATAVEALKATAQPVSGKEA, QAVVSEKRSSEKVGTEBMRVGDGTITBESIG 180

Db 141 KAVEKVTETLKGKEVETKEOTATAISKGDSIGBLIABAMOKVNGSYITTEESWT 200

Query 181 MTELEVVGOMOPDRGLSYOMTDNEKMDLENPLIITDKVSNIQDILPPLIEEVK 240

Db 201 FGQQLBTLGTRDKGKSYFVDPERQELBSPDYLVLSKYSTVRLDPLPELKVG 260

Query 241 TURPLLIIDDXDGEALPTVLUKIRGTTENVYKACFGGRKMDIAITLGCTVIT 300

Db 261 AGKPLLIAEDVEGEALSTLVVNRKGKSVAVKAPGFDRRKAMLDOMATLGQIVS 320

RESULT <sup>5</sup>  
US-09-712-363-169

; Sequence 169, Application US/09712363

; Patent No. US20020164588A1

; GENERAL INFORMATION:

; APPLICANT: Eisenberg, David

; APPLICANT: Rostein, Sergio H.

; APPLICANT: Marcotte, Edward M.

; TITLE OF INVENTION: DETERMINING THE FUNCTIONS AND INTERACTIONS OF PROTEINS BY COMPARATIVE ANALYSIS

; FILE REFERENCE: 0719-032001

; CURRENT APPLICATION NUMBER: US/09/712,363

; CURRENT FILING DATE: 2000-11-13

; PRIOR APPLICATION NUMBER: PCT/US00/02246

; PRIOR FILING DATE: 2000-01-28

; PRIOR APPLICATION NUMBER: 60/179,531

; PRIOR FILING DATE: 2000-02-01

; PRIOR APPLICATION NUMBER: 60/117,844

; PRIOR FILING DATE: 1999-01-29

; PRIOR APPLICATION NUMBER: 60/118,206

; PRIOR FILING DATE: 1999-03-26

; PRIOR APPLICATION NUMBER: 60/134,093

; PRIOR FILING DATE: 1999-05-14

; PRIOR APPLICATION NUMBER: 60/134,092

; PRIOR FILING DATE: 1999-05-14

; PRIOR APPLICATION NUMBER: 60/165,124

; PRIOR FILING DATE: 1999-11-12

; PRIOR APPLICATION NUMBER: 60/165,086

; PRIOR FILING DATE: 1999-11-12

; NUMBER OF SEQ ID NOS: 292

; SOFTWARE: Fast-SEQ for Windows Version 4.0

; SEQ ID NO: 169

; LENGTH: 540

; TYPE: PRT

; ORGANISM: Mycobacterium tuberculosis

US-09-712-363-169

Query Match Best Local Similarity 61.9%; Score 1647.5; DB 9; Length 540; Matches 332; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

Query 1 MAKEIKFSDARAKAMRGVYGMPLATVKTLPKGPKRNVYLEKAFGSPPLITDGTYTKEIE 60

Db 1 MAKTIYDEBARRGLERGLNALADAVKYLGPGRNVYLEKKWAPTINDGSIKE 60

Query 61 LEDHFRNNGAKLVSEVASKINDIAGDCTTATVLTQATVHREGKNTYAGANIGIRGIE 120

Db 61 LEDDYEKIGAKLVEKEVAKKDVGDTTATVLAQYREGLRAAGANGLIGLRGE 120

Query 121 TATATAVEALKATAQPVSGKEA, QAVVSEKRSSEKVGTEBMRVGDGTITBESIG 180

RESULT 6  
US-10-267-311-4  
; Sequence 4, Application US/10267311  
; Patent No. US20030050469A1  
; GENERAL INFORMATION:  
; APPLICANT: Siegel, Marvin  
; APPLICANT: Mizzen, Lee A.  
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO  
; FILE REFERENCE: 12471/002001  
; CURRENT APPLICATION NUMBER: US 10/267, 311  
; CURRENT FILING DATE: 2002-10-09  
; PRIOR APPLICATION NUMBER: US/09/613, 303  
; PRIOR FILING DATE: 2000-07-10  
; PRIOR APPLICATION NUMBER: US 60/143, 757  
; PRIOR FILING DATE: 1999-07-08  
; NUMBER OF SEQ ID NOS: 55  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 540  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE: fusion sequence  
; OTHER INFORMATION: fusion sequence  
; US-10-267-311-4

Query Match 61.9%; Score 1647.5; DB 9; Length 540;  
Best Local Similarity 61.1%; Pred. No. 2.4e-98; Mismatches 332; Conservative 87; Mismatches 119; Indels 5; Gaps 2; Matches 332; Gaps 2;

QY 1 MAKEIKFSDARAKAMVGRVMDLADTVKVLGPKGRNVLEKAFGSPRLINDYTIKEIE 60  
QY 1 MAKEIKFSDARAKAMVGRVMDLADTVKVLGPKGRNVLEKAFGSPRLINDYTIKEIE 60  
QY 1 MAKTIYDEEARGLERGLNLADAVKVTLGPKGRNVLEKAFGSPRLINDYTIKEIE 60  
QY 61 LEDHFENNGAKVSEVAKSTNDIAGSGTTTATVLTQTAIVHEGKNTAGANPIGIRGIE 120  
QY 61 LEDHFENNGAKVSEVAKSTNDIAGSGTTTATVLTQTAIVHEGKNTAGANPIGIRGIE 120  
QY 121 TATATAVAKATAQPVSGKEAVQAVNSSEKIGEYISEAMERVGNGVITIERSRG 180  
QY 121 TATATAVAKATAQPVSGKEAVQAVNSSEKIGEYISEAMERVGNGVITIERSRG 180  
QY 121 KAVEKVETTLLGAKEVETKEQIAATAISAGDOSIGLIAEMDKVNGNEGVITVEESNT 180  
QY 181 METELEVEMQFDGRGLSOMYTDNEKAVADLENPLIITDKVSNIODIPLILEEVK 240  
Db 181 FGLOELTEGMRFDKGYISGYFVTPERQEAVLEDYILLVSSKVSTYKDLPLERKV 240  
Db 241 AGKPLLIADVEGEALSLVVKIRGTSVAKPGDRKAMEDIALITGGVIT 300  
Db 241 AGKPLLIADVEGEALSLVVKIRGTSVAKPGDRKAMEDIALITGGVIT 300  
Db 301 EDIGLELKDMTMLGOKAITYDKDSTIVGSGSEANRILIKSOLLETTSDFR 360  
Db 301 EDIGLELKDMTMLGOKAITYDKDSTIVGSGSEANRILIKSOLLETTSDFR 360  
Db 301 BEVGLLENNADSLSLGKARKVVTKDFTTVEGAGDTAIALGRFAQIQELENSDVR 360  
Db 361 EKLOERLAKLAGGAVVTKGAPTTAKMKLIREDALNATRAAVNEGIVAGGTLIV 420  
Db 361 EKLOERLAKLAGGAVVTKGAPTTAKMKLIREDALNATRAAVNEGIVAGGTLIV 420  
Db 421 IEKVAALLEGDDATGRNIVRALERPEVQTAALNAGYBGSVVIKLNKNSPACTGENATG 480  
Db 421 IEKVAALLEGDDATGRNIVRALERPEVQTAALNAGYBGSVVIKLNKNSPACTGENATG 480  
Db 421 APTLDELKLEGDEATGAIKVVALEAPKQIAFQKQIAFNSCLEPGVVAEKTRNLQHNGT 480  
Db 481 EWDMKIGIDPKVRSALONASVASSLITTEAVANKPEPATPAPAMPGMDPQHM 540  
Db 481 EWDMKIGIDPKVRSALONASVASSLITTEAVANKPEPATPAPAMPGMDPQHM 540  
Db 481 VYEDLLAAGVADPKVTHSALQNAASIAGLFLTEAVWADKPE-KEKASVPGG--GDM 535  
QY 541 GGM 543  
QY 541 GGM 543  
Db 536 GGM 538  
Db 536 GGM 538

RESULT 7  
US-09-847-637B-6  
; Sequence 6, Application US/09847637B  
; Patent No. US2002015086A1  
; GENERAL INFORMATION:  
; APPLICANT: Nabarretek, Yakov  
; APPLICANT: Umansky, Rina  
; APPLICANT: Keshl, Tchekakel  
; APPLICANT: Keshl, Tchekakel  
; TITLE OF INVENTION: THE AMINO ACID SEQUENCES, DNA ENCODING  
; TITLE OF INVENTION: NOVEL AMINO ACID SEQUENCES, ANTIBODIES DIRECTED AGAINST SUCH  
; FILE REFERENCE: 13125-002001  
; CURRENT APPLICATION NUMBER: US/09/847, 637B  
; CURRENT FILING DATE: 2001-05-02  
; PRIOR APPLICATION NUMBER: PCT/IL99/00595  
; PRIOR FILING DATE: 1999-11-04  
; PRIOR APPLICATION NUMBER: 60/107, 213  
; PRIOR FILING DATE: 1998-11-05  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 540  
; TYPE: PRT  
; ORGANISM: Mycobacterium tuberculosis  
; US-09-847-637B-6

Query Match 61.9%; Score 1647.5; DB 10; Length 540;  
Best Local Similarity 61.1%; Pred. No. 2.4e-98; Mismatches 332; Conservative 87; Mismatches 119; Indels 5; Gaps 2; Matches 332; Gaps 2;

QY 1 MAKEIKFSDARAKAMVGRVMDLADTVKVLGPKGRNVLEKAFGSPRLINDYTIKEIE 60  
QY 1 MAKEIKFSDARAKAMVGRVMDLADTVKVLGPKGRNVLEKAFGSPRLINDYTIKEIE 60  
QY 1 MAKTIYDEEARGLERGLNLADAVKVTLGPKGRNVLEKAFGSPRLINDYTIKEIE 60  
QY 61 LEDHFENNGAKVSEVAKSTNDIAGSGTTTATVLTQTAIVHEGKNTAGANPIGIRGIE 120  
QY 61 LEDHFENNGAKVSEVAKSTNDIAGSGTTTATVLTQTAIVHEGKNTAGANPIGIRGIE 120  
QY 121 TATATAVAKATAQPVSGKEAVQAVNSSEKIGEYISEAMERVGNGVITIERSRG 180  
QY 121 TATATAVAKATAQPVSGKEAVQAVNSSEKIGEYISEAMERVGNGVITIERSRG 180  
QY 121 KAVEKVETTLLGAKEVETKEQIAATAISAGDOSIGLIAEMDKVNGNEGVITVEESNT 180  
QY 181 METELEVEMQFDGRGLSOMYTDNEKAVADLENPLIITDKVSNIODIPLILEEVK 240



349 AGKPLIIADEVGEAATSTLVNNKIRGTYKSVAKPGGDRRNMAMQDAILGGVQVS 408  
 QY 301 EDGLELKDMATMGLQAKTIVDUDKSTVIGSGSESEANTANILIKSOLLETTSDFR 360  
 Db 409 EYEGULLENADSLSLGKARVVWKTDETTIVEGSGSDAIGRVOIRAIENSSDYR 360  
 QY 361 EKQERLAKLAGGAVVIKVGAPTTETALKEMKLRLDEALNATRAVEVGIVAGGGTALITY 420  
 Db 469 EKQERLAKLAGGAVVIKVGAPTTETALKEMKLRLDEALNATRAVEVGIVAGGGTALITY 420  
 QY 421 IEKVAALELEGDDATGRNIVRAREEPPVROTAALNAGYEGSVWIDKLNNSPAGTFNATG 480  
 Db 421 APALDOLGUTGDTAGNTIRVALSPLKQIAFNGGLEPGVVAEKWSNLPSAGLNATG 480  
 QY 481 EDWDMIKTGIDPVKVRSLQNAASVSLITTEAVANKPEPAPAMPAGMDGMM 540  
 Db 589 VYEDLILAGVADPVKVRSLQNAASVSLITTEAVANKPEPAPAMPAGMDGMM 540  
 QY 529 APPDELEKLKGDEATGANTKVALAPLKQAFNSGLPBGVVAEKRNAPAGLQNT 588  
 QY 481 EDWDMIKTGIDPVKVRSLQNAASVSLITTEAVANKPEPAPAMPAGMDGMM 540  
 Db 541 GGM 543  
 Db 644 GGM 646

RESULT 10  
 US-10-051-643-114  
 ; Sequence 114, Application US/10051643  
 ; Publication No. US20020197265A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Watson, James D.  
 ; ATTORNEY: Tan, Paul L. J.  
 ; TITLE OF INVENTION: Methods and Compounds for the Treatment of Immunologically-Mediated Diseases of the Respiratory System using Mycobacterium Vaccae  
 ; FILE REFERENCE: 1100-1008c2  
 ; CURRENT APPLICATION NUMBER: US/10-051-643  
 ; CURRENT FILING DATE: 2002-01-18  
 ; PRIOR APPLICATION NUMBER: US09/156,181  
 ; PRIOR FILING DATE: 1998-09-17  
 ; PRIOR APPLICATION NUMBER: US 08/996,624  
 ; PRIOR FILING DATE: 1997-12-23  
 ; NUMBER OF SEQ ID NOS: 208  
 ; SOFTWARE: FastSEQ for Windows Version 3.0  
 ; SEQ ID NO: 114  
 ; LENGTH: 523  
 ; TYPE: PRT  
 ; ORGANISM: Mycobacterium vaccae  
 ; US-10-051-643-114

Query Match 61.7%; Score 1643; DB 9; Length 523;  
 Best Local Similarity 62.7%; Pred. No. 4 4e-98;  
 Matches 328; Conservative 83; Mismatches 112; Indels 0; Gaps 0;

QY 1 MAKEIKSADAARAAMVRVDMALADTVKVLGPKGRNVVLEKARGSPLTIDNGVIAKIE 60  
 Db 1 MAKTIADDEARRGLERGLNALADAVKVLGPKGRNVVLEKARGSPLTIDNGVIAKIE 60  
 QY 61 LEDIFENNGAKLVVEASKTNDIAGDTTATVLTIAHEGKNTYAGNPICIRGIE 120  
 Db 61 LEDPYERIGGAEVAKKTDVAGDGTATVLAOLYREGIRNAYAGNPICIRGIE 120  
 QY 121 TATATAVAKLAIQPSGKIAQAVAVSSERGEYISEAMERVNGDGVITTEESRG 180  
 Db 121 KAYEVAVQSLSLKSKAEVETKEOISATASISGDTQGELIAEANDKVGNGVITVEESNT 180  
 QY 181 METELEVYEGMDFRGLSOMWTDNERKADLENFILITDKVNNIQDPLRERVL 240  
 Db 181 FGLQLELTTEGRDFKQYISGFVDAERQEALEPDYIILVSKVSTKQDPLRERVL 240  
 QY 241 TNPILLIADYDGEAALPTVLNIRGTFNIVVAKPGGDRRKAMLEDAITGTVIT 300  
 Db 241 AGKPLIIADEVGEAALSTLVNNKIRGTYKSVAKPGGDRRKAMLEDAITGTVIT 300  
 QY 301 EDGLELKDMATMGLQAKTIVDUDKSTVIGSGSESEANTANILIKSOLLETTSDFR 360  
 Db 301 ERVGSLETADVSLSGQARKVVWKTDETTIVEGSGSDAIGRVOIRAIENSSDYR 360  
 QY 361 EKQERLAKLAGGAVVIKVGAPTTETALKEMKLRLDEALNATRAVEVGIVAGGGTALITY 420  
 Db 361 EKQERLAKLAGGAVVIKVGAPTTETALKEMKLRLDEALNATRAVEVGIVAGGGTALITY 420

RESULT 12  
US-10-068-059-10  
; Sequence 10, Application US/10068059.  
; Patent No. US200015534A1  
; GENERAL INFORMATION:  
; APPLICANT: Mizzen, Lee A.  
; APPLICANT: Hongwei, Liu  
; APPLICANT: Siegel, Marvin  
; TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT  
; FILE REFERENCE: 12071-017002  
; CURRENT APPLICATION NUMBER: US/10/068, 059  
; CURRENT FILING DATE: 2002-06-04  
; PRIORITY FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 10  
; LENGTH: 690  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Fusion protein  
; US-10-068-059-10

Query Match  
Best Local Similarity 61.1%; Score 1642.5; DB 9; Length 690;  
Matches 331; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

Qy 2 AKIEKNSADARAMVQDMPLADYVLUKPGPKRNVLKAKGSPPLITNDGVTIAKEEL 61  
Db 171 AKTIAVDEEARGLERGLNLADAVKYLPGPKRNVLKAKGSPPLITNDGVTIAKEEL 230  
Qy 62 EDHFENGMGAKLSEVASKINDIAGDTTATVLTQAIHVEGLKAVTAGANPIGIRGIE 121  
Db 231 EDYEKVKGLRKEVAKTDDGDTTATVLTQAIHVEGLKAVTAGANPIGIRGIE 290  
Qy 122 ATATAVAEALKAKAOPVGSKELIAQVAVSSRSEKVEYISAMERVGNDGVTIEESGM 181  
Db 272 AVEKVETILKGAKKEVETKOEIATAISAGDOSIGDILAKMDKVGNEGIVTVESENTP 331  
Qy 182 EPELEVEVGQDFRGYQSQMTNEKVALENPLDKVSNIOPDILPLLESYLK 241  
Db 351 GQLELTGECMRDKGIVSOFVDPBREAVLSDPILLISKISTVADLPLLEVKVGA 410  
Qy 242 NRPLLIADVGEALPLVNLKIRGTFNVAKAPFGDKKAMLEDIAITLGTVITE 301  
Db 411 GRPLLIADVGEALSTLUNVKIRGTFNVAKAPFGDKKAMLDIAITLGTVITE 470  
Qy 242 NRPLLIADVGEALPLVNLKIRGTFNVAKAPFGDKKAMLEDIAITLGTVITE 301  
Db 392 GKEPLLIAEDVEGAESTLUVNKIRGTFPKSYAVKAPGFDGRKMLQMDHAILTGQVISE 451  
Qy 302 DGLGELKDATMGLGQAKITUDKSTVWEGSSSEANRMLIKSQLETTSDFRE 361  
Db 471 EVGLTENLADISLKGAKRKVWVKDSTTVEGAGDTDAGRVOIQREIEISDSDFRE 530  
Qy 362 KIQLERLAKLAGVAVIKVQAPTEALKMRLTEDALNARAAVEGIVAGGGTLIVI 421  
Db 452 EVGLTENLADISLKGAKRKVWVKDSTTVEGAGDTDAGRVOIQREIEISDSDFRE 511  
Db 531 KIQLERLAKLAGVAVIKVQAPTEALKMRLTEDALNARAAVEGIVAGGGTLIVI 421  
Qy 362 KIQLERLAKLAGVAVIKVQAPTEALKMRLTEDALNARAAVEGIVAGGGTLIVI 421  
Db 591 FTDLDEKLKGEDDTGANTVLAEEPVROQALNAGYEGSSWIDKLNKSPAGTGENATGE 481  
Qy 482 WDMKIGIDPKVTRSLQNASTASLITTEAVWANKPERPATPAPMAGDPMG 541  
Db 651 YEDLLAAGVADPKVTRSLQNASTASLITTEAVWADPPE - KERASVPGG --GDMG 705  
Qy 542 GM 543  
Db 706 GM 707

RESULT 13  
US-10-068-059-8  
; Sequence 8, Application US/10068059  
; Patent No. US200015534A1  
; GENERAL INFORMATION:  
; APPLICANT: Mizzen, Lee A.  
; APPLICANT: Honwei, Liu  
; APPLICANT: Siegel, Marvin  
; TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT  
; FILE REFERENCE: 12071-017002  
; CURRENT APPLICATION NUMBER: US/10/068, 059  
; CURRENT FILING DATE: 2002-06-04  
; PRIORITY NUMBER: US 60/246,733  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 709  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Fusion protein  
; US-10-068-059-8

Query Match  
Best Local Similarity 61.7%; Score 1642.5; DB 9; Length 709;  
Matches 331; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

Qy 2 AKIEKNSADARAMVQDMPLADYVLUKPGPKRNVLKAKGSPPLITNDGVTIAKEEL 61  
Db 171 AKTIAVDEEARGLERGLNLADAVKYLPGPKRNVLKAKGSPPLITNDGVTIAKEEL 230  
Qy 62 EDHFENGMGAKLSEVASKINDIAGDTTATVLTQAIHVEGLKAVTAGANPIGIRGIE 121  
Db 231 EDYEKVKGLRKEVAKTDDGDTTATVLTQAIHVEGLKAVTAGANPIGIRGIE 290  
Qy 122 ATATAVAEALKAKAOPVGSKELIAQVAVSSRSEKVEYISAMERVGNDGVTIEESGM 181  
Db 291 AVEKVETILKGAKKEVETKOEIATAISAGDOSIGDILAKMDKVGNEGIVTVESENTP 350  
Qy 182 EPELEVEVGQDFRGYQSQMTNEKVALENPLDKVSNIOPDILPLLESYLK 241  
Db 351 GQLELTGECMRDKGIVSOFVDPBREAVLSDPILLISKISTVADLPLLEVKVGA 410  
Qy 242 NRPLLIADVGEALPLVNLKIRGTFNVAKAPFGDKKAMLEDIAITLGTVITE 301  
Db 411 GRPLLIADVGEALSTLUNVKIRGTFNVAKAPFGDKKAMLDIAITLGTVITE 470  
Qy 302 DGLGELKDATMGLGQAKITUDKSTVWEGSSSEANRMLIKSQLETTSDFRE 361  
Db 471 EVGLTENLADISLKGAKRKVWVKDSTTVEGAGDTDAGRVOIQREIEISDSDFRE 530  
Qy 362 KIQLERLAKLAGVAVIKVQAPTEALKMRLTEDALNARAAVEGIVAGGGTLIVI 421  
Db 531 KIQLERLAKLAGVAVIKVQAPTEALKMRLTEDALNARAAVEGIVAGGGTLIVI 421  
Qy 422 EKVAELEGGDATGRVIVKLAEEPVROQALNAGYEGSSWIDKLNKSPAGTGENATGE 481  
Db 572 PTDLDEKLKGEDDTGANTVLAEEPVROQALNAGYEGSSWIDKLNKSPAGTGENATGE 481  
Qy 482 WDMKIGIDPKVTRSLQNASTASLITTEAVWANKPERPATPAPMAGDPMG 541  
Db 651 YEDLLAAGVADPKVTRSLQNASTASLITTEAVWADPPE - KERASVPGG --GDMG 705  
Qy 542 GM 543  
Db 706 GM 707

